

Special Issue

Assessment of Forest Biomass Using Inventory Plots and Modeling

Message from the Guest Editors

The accurate assessment of forest biomass has a critical role in the participation of forests in the emission reduction market, and as a key indicator of forest productivity, dynamics and health. A steadily growing interest has sought to reduce cost and improve biomass estimates in woody vegetation areas by combining sophisticated statistical analysis methods and cutting-edge technologies with established forest inventory plots. Many methods are available for biomass estimation, ranging from traditional direct field measurements to indirect methods using remote sensing sources. However, technical challenges and opportunities for more cost-effective biomass assessment reporting remain as modeling and multiscale data sources continue to evolve and advance. This Special Issue aims to provide a selection of contributions to outline the state-of-the-art on quantitative methods using ground forest plot inventories for reliable forest biomass, and to identify gaps where research is needed.

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